

ABSTRACT

A tool for performing anastomosis connects two tissue structures end-to-end. An end of each of the two tissue structures is sized to a known interface dimension with a tissue preparation device, and two or more cuts are made in that end to create at least two flaps. A clamp holds each tissue structure, and each clamp may be integrated with a tissue preparation device. The clamps are movable relative to one another, and are registered together such that the flaps of one tissue structure are pressed against the corresponding flaps of the other tissue structure when the clamps come together. Each flap of one tissue structure is connected to a corresponding flap on the other corresponding tissue structure with at least one connector such as a staple or other fastener.